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OM protein - protein search, using sw model

Run on: May 12, 2003, 15:05:12 ; Search time 27 Seconds

(without alignments)
2696.012 Million cell updates/sec

Title: US-09-804-472-2

Perfect score: 4177

Sequence: 1 MDASSDPYLPYDGGGDNIPL.....DILRHMAQTANODASIMFN 791

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 349150 seqs, 92025710 residues

Total number of hits satisfying chosen parameters: 349150

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_AA:*
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14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	4177	100.0	791	US-09-804-472-2	Sequence 2, Appl1
2	4033	96.6	765	US-09-804-472-4	Sequence 4, Appl1
3	4022	96.3	767	US-09-804-472-5	Sequence 5, Appl1
4	3217	77.0	747	US-10-109-562A-2	Sequence 2, Appl1
5	2619	62.7	851	US-09-991-936-1915	Sequence 1915, Ap
6	822	19.7	182	US-09-864-761-42913	Sequence 42913, A
7	687.5	16.5	166	US-09-864-761-47670	Sequence 47670, A
8	565.5	13.5	161	US-09-864-761-34035	Sequence 34035, A
9	311	7.4	60	US-09-804-472-6	Sequence 6, Appl1
10	267	6.4	75	US-09-864-761-34036	Sequence 34036, A
11	240	5.7	50	US-09-864-761-37070	Sequence 37070, A
12	169	4.0	423	US-09-738-626-3570	Sequence 3570, Ap
13	115.5	2.8	329	US-10-014-502-2	Sequence 2, Appl1
14	112.5	2.7	1094	US-09-712-363-287	Sequence 287, Ap
15	112	2.7	2894	US-10-044-995-23	Sequence 23, Appl1
16	112	2.7	2894	US-09-941-611-23	Sequence 23, Appl1
17	112	2.7	3011	US-09-916-359-2	Sequence 2, Appl1
18	111	2.7	618	US-10-216-335-2	Sequence 2, Appl1
19	109	2.6	828	US-10-270-336-2	Sequence 2, Appl1

20	108.5	2.6	392	10	US-09-815-242-12755	Sequence 12755, A
21	108.5	2.6	392	10	US-09-815-242-13117	Sequence 13117, A
22	108.5	2.6	414	10	US-09-815-242-5780	Sequence 5780, Ap
23	108	2.6	1005	9	US-10-176-847-90	Sequence 90, Appl
24	107	2.6	794	9	US-10-270-336-7	Sequence 7, Appl1
25	107	2.6	823	9	US-10-270-336-6	Sequence 6, Appl1
26	107	2.6	3011	9	US-09-891-894-3	Sequence 3, Appl1
27	107	2.6	3011	9	US-09-995-937-20	Sequence 20, Appl
28	107	2.6	3011	9	US-09-917-563-20	Sequence 20, Appl
29	107	2.6	3011	10	US-09-742-659-4	Sequence 4, Appl1
30	107	2.6	3011	10	US-09-238-076-20	Sequence 20, Appl
31	107	2.6	3012	9	US-09-995-937-2	Sequence 2, Appl1
32	107	2.6	3012	9	US-09-917-563-2	Sequence 2, Appl1
33	106	2.6	3012	10	US-09-238-076-2	Sequence 2, Appl1
34	106	2.5	915	9	US-10-270-336-5	Sequence 5, Appl1
35	105	2.5	3011	9	US-09-747-419-20	Sequence 20, Appl
36	105	2.5	3011	10	US-09-952-572-9	Sequence 9, Appl1
37	104.5	2.5	379	12	US-10-014-502-4	Sequence 4, Appl1
38	104.5	2.5	475	9	US-09-738-626-6117	Sequence 6117, Ap
39	104	2.5	1276	10	US-09-866-866A-8	Sequence 8, Appl1
40	103.5	2.5	679	10	US-09-815-242-5658	Sequence 5658, Ap
41	103.5	2.5	681	10	US-09-815-242-12270	Sequence 12270, A
42	103	2.5	3011	9	US-10-104-966-1	Sequence 1, Appl1
43	103	2.5	3011	10	US-09-929-955-1	Sequence 1, Appl1
44	102.5	2.5	395	10	US-09-815-242-13892	Sequence 13892, A
45	102	2.4	732	9	US-09-922-364A-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1	US-09-804-472-2	US-09-815-242-12755
Sequence 2, Application US/09804472	Sequence 2, Appl1	Sequence 13117, A
Patent No. US20020143146A1	Sequence 4, Appl1	Sequence 5780, Ap
GENERAL INFORMATION:	Sequence 5, Appl1	Sequence 90, Appl
APPLICANT: SHAO, Wei et al.	Sequence 2, Appl1	Sequence 6, Appl1
TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,	Sequence 287, Ap	Sequence 23, Appl1
TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,	Sequence 23, Appl1	Sequence 2, Appl1
TITLE OF INVENTION: AND USES THEREOF	Sequence 2, Appl1	Sequence 2, Appl1
FILE REFERENCE: CLO01163	Sequence 2, Appl1	Sequence 2, Appl1
CURRENT APPLICATION NUMBER: US/09/804,472	Sequence 2, Appl1	Sequence 2, Appl1
CURRENT FILING DATE: 2001-03-13	Sequence 2, Appl1	Sequence 2, Appl1
NUMBER OF SEQ ID NOS: 6	Sequence 2, Appl1	Sequence 2, Appl1
SOFTWARE: FastSeq for Windows Version 4.0	Sequence 2, Appl1	Sequence 2, Appl1
SEQ ID NO 2	Sequence 2, Appl1	Sequence 2, Appl1
LENGTH: 791	Sequence 2, Appl1	Sequence 2, Appl1
TYPE: PRT	Sequence 2, Appl1	Sequence 2, Appl1
ORGANISM: Human	Sequence 2, Appl1	Sequence 2, Appl1
US-09-804-472-2	Sequence 2, Appl1	Sequence 2, Appl1

Query Match 100.0%; Pred. No. 0; DB 10; Length 791;
Best Local Similarity 100.0%; Mismatches 0; Indels 0; Gaps 0;
Matches 791; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MDASSDPYLPYDGGGDNIPLEILHKKRGTHTYMTNGSSINSHLLDLDEPIPGVETDD	60
DB	1	MDASSDPYLPYDGGGDNIPLEILHKKRGTHTYMTNGSSINSHLLDLDEPIPGVETDD	60
QY	61	PHITIDWRECKDKRHRHRRINSKKKESAWEMTKSLYDAMSGWLVTTLTGLASGALGLID	120
DB	61	PHITIDWRECKDKRHRHRRINSKKKESAWEMTKSLYDAMSGWLVTTLTGLASGALGLID	120
QY	121	IAADWMTDLKEGICLSALVYNHQCCWGSNETFEERDRCPOKWTAAELLIGAEKPGSY	180
DB	121	IAADWMTDLKEGICLSALVYNHQCCWGSNETFEERDRCPOKWTAAELLIGAEKPGSY	180
QY	181	IMNYIYIFWALSFALVSIKVPAPYACGSGIPKTIILSGFIRGYLGKTTLMIKTI	240
DB	181	IMNYIYIFWALSFALVSIKVPAPYACGSGIPKTIILSGFIRGYLGKTTLMIKTI	240
QY	241	TLVLAVASGLSKEGPLVHVACCNGNIFSYLPKYSTNEAKKREVLASAAGSVARQ	300
DB	241	TLVLAVASGLSKEGPLVHVACCNGNIFSYLPKYSTNEAKKREVLASAAGSVARQ	300

Db 241 TLVLAASGLSLGKEGPLVHVACCCGNIIFYLPKYSTNEAKKREVLISAAGSVAFG 300
QY 301 APIGVLFSLEEVSYYPEPLKTLMRSEFAALVAAFLRSINPFGNSRLVLFVEYHTPWL 360
Db 301 APIGVLFSLEEVSYYPEPLKTLMRSEFAALVAAFLRSINPFGNSRLVLFVEYHTPWL 360
QY 361 FELPFLILGVFGGLWGCAFFIRANIAMCRKRKSTKFGKYVLEVYIIVAAITAVIAPNPY 420
Db 361 FELPFLILGVFGGLWGCAFFIRANIAMCRKRKSTKFGKYVLEVYIIVAAITAVIAPNPY 420
QY 421 TRNTSLILKELFDGCPLESSSLCDYRNDMNASKIYDDIPDRPAGIGVSAIMQLCLAL 480
Db 421 TRNTSLILKELFDGCPLESSSLCDYRNDMNASKIYDDIPDRPAGIGVSAIMQLCLAL 480
QY 481 IFKIMTVTFEGIKVPSGLEIPSMALGAIAGRIYGIIVAEOLAVYHHDMWTFEKCEVAD 540
Db 481 IFKIMTVTFEGIKVPSGLEIPSMALGAIAGRIYGIIVAEOLAVYHHDMWTFEKCEVAD 540
QY 541 CTPPGLYAMGAACLCGVTMTVSLVYIVFELTGLEIVPLMAAVMTSKWGDAGRE 600
Db 541 CTPPGLYAMGAACLCGVTMTVSLVYIVFELTGLEIVPLMAAVMTSKWGDAGRE 600
QY 601 GIYEAHIRLNGYPLDAKKEFTHTTLAADYMRPRNDPPLAVLTODNMTVDIENMTNET 660
Db 601 GIYEAHIRLNGYPLDAKKEFTHTTLAADYMRPRNDPPLAVLTODNMTVDIENMTNET 660
QY 661 SYNGFPYIMSKESQRLVGFALRDLTIAIESARKKOGIYSSRCVFAQHTPLPAESPR 720
Db 661 SYNGFPYIMSKESQRLVGFALRDLTIAIESARKKOGIYSSRCVFAQHTPLPAESPR 720
QY 721 PLKRLSLDMSPTVYDHTMEIYVDFRKLGLRQCLVTHNGRLGTTTKDILRHMAQT 780
Db 721 PLKRLSLDMSPTVYDHTMEIYVDFRKLGLRQCLVTHNGRLGTTTKDILRHMAQT 780
QY 781 ANDPASIMFN 791
Db 781 ANDPASIMFN 791

RESULT 2
US-09-804-472-4
; Sequence 4, Application US/09804472
; Patent No. US20020143146A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001163
; CURRENT APPLICATION NUMBER: US/09/804,472
; CURRENT FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 765
; TYPE: PRT
; ORGANISM: Human
US-09-804-472-4

Query Match 96.6%; Score 4033; DB 10; Length 765;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 765; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 27 GTHYTMNGSINSSTHLLDLDEPIPGVGYDDFTHTIDWVREKCKDRHRIRINSKKE 86
Db 1 GTHYTMNGSINSSTHLLDLDEPIPGVGYDDFTHTIDWVREKCKDRHRIRINSKKE 60

QY 87 SAEMKRSLYDAMSGMLVYTLTGASGALAGLIDIAADMWTDLKEGICLSALVYNHQCC 146
Db 61 SAEMKRSLYDAMSGMLVYTLTGASGALAGLIDIAADMWTDLKEGICLSALVYNHQCC 120

QY 147 WGSNETTFFERDCKPQMKTAELIGQAEPPGSYIMNYIYIFWALSFAFLAVSLVKVFA 206
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Db 121 WGSNETTFFERDCKPQMKTAELIGQAEPPGSYIMNYIYIFWALSFAFLAVSLVKVFA 180
QY 207 PYAGSGSIPKIKITLISGFIIRGYLGKWTLMITKTTLVLAASGLSLGKEGPLVHVACCCG 266
Db 181 PYAGSGSIPKIKITLISGFIIRGYLGKWTLMITKTTLVLAASGLSLGKEGPLVHVACCCG 240
QY 267 NIFSYLEPKYSTNEAKKREVLISAAGSVAFGAPIGVLFSLSEVSYYPEPLKTLMRSF 326
Db 241 NIFSYLEPKYSTNEAKKREVLISAAGSVAFGAPIGVLFSLSEVSYYPEPLKTLMRSF 300
QY 327 FAALVAAFLVRSINPFGNSRLVLFVEYHTPWLFEFPFLILGVFGGLWGCAFFIRANIA 386
Db 301 FAALVAAFLVRSINPFGNSRLVLFVEYHTPWLFEFPFLILGVFGGLWGCAFFIRANIA 360
QY 387 WCRRRKSTKFGKPYLEVIIVAAITAVIAPNPYTRNTSELIKELFTDCGPLESSSLCD 446
Db 361 WCRRRKSTKFGKPYLEVIIVAAITAVIAPNPYTRNTSELIKELFTDCGPLESSSLCD 420
QY 447 YRNDMNASKIYDDIPDRPAGIGVSAIMQLCLALIEKIMTVTFEGIKVPSGLEIPSMAL 506
Db 421 YRNDMNASKIYDDIPDRPAGIGVSAIMQLCLALIEKIMTVTFEGIKVPSGLEIPSMAL 480
QY 507 GATAGRIYGIIVAEOLAVYHHDMWTFEKCEVADCTTPGLYAMGAACLCGVTMTVSL 566
Db 481 GATAGRIYGIIVAEOLAVYHHDMWTFEKCEVADCTTPGLYAMGAACLCGVTMTVSL 540
QY 567 VVIVFELTGLEIVPLMAAVMTSKWGDAGREGIYEAHIRLNGYPLDAKKEFTHTTL 626
Db 541 VVIVFELTGLEIVPLMAAVMTSKWGDAGREGIYEAHIRLNGYPLDAKKEFTHTTL 600
QY 627 AADYMRPRNDPPLAVLTODNMTVDIENMTSYNGFPYIMSKESQRLVGFALRDLT 686
Db 601 AADYMRPRNDPPLAVLTODNMTVDIENMTSYNGFPYIMSKESQRLVGFALRDLT 660
QY 687 IATESARKKOGIYSSRCVFAQHTPLPAESPRPLKRLSLDMSPTVYDHTMEIYVD 746
Db 661 IATESARKKOGIYSSRCVFAQHTPLPAESPRPLKRLSLDMSPTVYDHTMEIYVD 720
QY 747 IFRKLGLRQCLVTHNGRLGTTTKDILRHMAQTANDPASIMFN 791
Db 721 IFRKLGLRQCLVTHNGRLGTTTKDILRHMAQTANDPASIMFN 765

RESULT 3
US-09-804-472-5
; Sequence 5, Application US/09804472
; Patent No. US20020143146A1
; GENERAL INFORMATION:
; APPLICANT: SHAO, Wei et al.
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: CL001163
; CURRENT APPLICATION NUMBER: US/09/804,472
; CURRENT FILING DATE: 2001-03-13
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 767
; TYPE: PRT
; ORGANISM: Human
US-09-804-472-5

Query Match 96.3%; Score 4022; DB 10; Length 767;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 765; Conservative 0; Mismatches 0; Indels 2; Gaps 1;

QY 27 GTHYTMNGSINSSTHLLDLDEPIPGVGYDDFTHTIDWVREKCKDRHRIRINSKKE 86
Db 1 GTHYTMNGSINSSTHLLDLDEPIPGVGYDDFTHTIDWVREKCKDRHRIRINSKKE 60

QY 87 SAEMKRSLYDAMSGMLVYTLTGASGALAGLIDIAADMWTDLKEGICLSALVYNHQCC 146
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Db 61 SAEEMKSLYDANSGMLVLTGLASGALAGLIDIAADMMTDKEGICLSALWYNEHQC 120
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Db 121 WGSNETFEERDCKOPKMTAELLIGOEKPGSYIMNYIMTFMALSFAFLAVSLVYFA 180
Oy 207 PYACSGSIPKIKTLISGFIIRGYLGKWTLMKITTLLVAVASGLSLEKEGPIVHACCG 266
Db 181 PYACSGSIPKIKTLISGFIIRGYLGKWTLMKITTLLVAVASGLSLEKEGPIVHACCG 240
Oy 267 NITSYLEPKYSTNEAKREVLASAAGSVAGAPIGVLFSLSEESYFPLKTLMSRF 326
Db 241 NITSYLEPKYSTNEAKREVLASAAGSVAGAPIGVLFSLSEESYFPLKTLMSRF 300
Oy 327 FAALVAFVRSINPFGNSRLVLYVEYHTPWLFELFPLTLLGFGGLGAFIRANIA 386
Db 301 FAALVAFVRSINPFGNSRLVLYVEYHTPWLFELFPLTLLGFGGLGAFIRANIA 360
Oy 387 WCRRRKSTKFGKYPVLEVIIVAAITVAVAPNPYTRLNTSELIKELFTDGPLESSLCD 446
Db 361 WCRRRKSTKFGKYPVLEVIIVAAITVAVAPNPYTRLNTSELIKELFTDGPLESSLCD 420
Oy 447 YRDNMNSKIVDDIPDRPAIGYSATWOLCLALIKIMTVTFPGIKVPSGLFIPSMAT 506
Db 421 YRDNMNSKIVDDIPDRPAIGYSATWOLCLALIKIMTVTFPGIKVPSGLFIPSMAT 480
Oy 507 GATAGRIYVIAVBOLEYHHDMFIFKEMCEVADCTPGIYAWGAACGVTBMTVSL 566
Db 481 GATAGRIYVIAVBOLEYHHDMFIFKEMCEVADCTPGIYAWGAACGVTBMTVSL 540
Oy 567 VVIVFELTGLLEYIVPLMAAVMTSKWVGAFGREGIYEAHIRLNGVYFLDAKE--EFTHT 624
Db 541 VVIVFELTGLLEYIVPLMAAVMTSKWVGAFGREGIYEAHIRLNGVYFLDAKEEFTHT 600
Oy 625 TLADAVRRPRNDPPLAVLQDNWNTVDIENMNETSYNCFPIYMSKESQRLVGFALRD 684
Db 601 TLADAVRRPRNDPPLAVLQDNWNTVDIENMNETSYNCFPIYMSKESQRLVGFALRD 660
Oy 685 LTTAIESARKKOGIYSSHVCFQHTPSPAPESPRLKRSILDSNPFVTOTHPMEIV 744
Db 661 LTTAIESARKKOGIYSSHVCFQHTPSPAPESPRLKRSILDSNPFVTOTHPMEIV 720
Oy 745 VDFIRKLGLRQCLVTHNGRLGIITTKDILRHMAQTANODPASIMFN 791
Db 721 VDFIRKLGLRQCLVTHNGRLGIITTKDILRHMAQTANODPASIMFN 767

RESULT 4
US-10-109-562A-2
; Sequence 2, Application US/10109562A
; Publication No. US20030033625A1
; GENERAL INFORMATION:
; APPLICANT: Allen, Keith D.
; TITLE OF INVENTION: TRANSGENIC MICE CONTAINING CLCN4
; FILE REFERENCE: R-890
; CURRENT APPLICATION NUMBER: US/10/109,562A
; PRIOR FILING DATE: 2002-03-28
; PRIOR APPLICATION NUMBER: US 60/280,312
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: US 60/324,640
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 747
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-109-562A-2

Query Match 77.0%; Score 3217; DB 9; Length 747;
Best Local Similarity 77.6%; Pred. No. 6,9e-292;
Matches 580; Conservative 83; Mismatches 84; Indels 0; Gaps 0;

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Db 1 MDLEEFEPDVGTEYEDHTIDMLEKSRDTRRRKLTISKSKESIMETKSLDMSGMV 60
Oy 105 VLTGLASGALAGLIDIAADMMTDKEGICLSALWYNEHQCWGSNETFEERDCKOPK 164
Db 61 MLITGLAGTAGIYDLAVDMMTDLKREGVCLSAFWYSHQCOWCSNETFEEDRCKPCLM 120
Oy 165 TMAELLIGQADGPGSYIMNYIMTFMALSFAFLAVSLVYKFAFPACGSGIPEIKTILISGF 224
Db 121 KWSELLSQSEGASAVLTNTLMYTMALFAFLAVSLVRFAPACGSGIPEIKTILISGF 180
Oy 225 IIRGYLGKWTLMKITTLLVAVASGLSLEKEGPIVHACCGNFTSYLFPKYSTNEAKR 284
Db 181 IIRGYLGKWTLMKITTLLVAVASGLSLEKEGPIVHACCGNFTSYLFPKYSTNEAKR 240
Oy 285 EVLSAASAGSVAFGAPIGVLFSLSEESYFPLKTLMSFFAALVAFVRSINPFGN 344
Db 241 EVLSAASAGSVAFGAPIGVLFSLSEESYFPLKTLMSFFAALVAFVRSINPFGN 300
Oy 345 SRLVLFVEYHTPWLFELFPLTLLGFGGLGAFIRANIAMCRKSTKFGKIPVLEV 404
Db 301 SRLVLFVEYHTPWLFELFPLTLLGFGGLGAFIRANIAMCRKSTKFGKIPVLEV 360
Oy 405 IIVAAITVAVAPNPYTRLNTSELIKELFTDGPLESSLCDYRDNMNSKIVDDIPDRP 464
Db 361 IIVAAITVAVAPNPYTRLNTSELIKELFTDGPLESSLCDYRDNMNSKIVDDIPDRP 420
Oy 465 AGIOVYSAIWOLCLALIKIMTVTFPGIKVPSGLFIPSAIGAIGVIAVEQLAVY 524
Db 421 AGIOVYSAIWOLCLALIKIMTVTFPGIKVPSGLFIPSAIGAIGVIAVEQLAVY 480
Oy 525 HHDMFIFKEMCEVADCTPGIYAWGAACGVTBMTVSLVYVLELGLLEYIVPLM 584
Db 481 HHDMFIFKEMCEVADCTPGIYAWGAACGVTBMTVSLVYVLELGLLEYIVPLM 540
Oy 585 AAATSKWVGAFGREGIYEAHIRLNGVYFLDAKEEFTHTTLADAVRRPRNDPPLAVLT 644
Db 541 AAATSKWVGAFGREGIYEAHIRLNGVYFLDAKEEFTHTTLADAVRRPRNDPPLAVLT 600
Oy 645 QDNWNTVDIENMNETSYNCFPIYMSKESQRLVGFALRDLTJAIESARKKOGIYSSR 704
Db 601 QDNWNTVDIENMNETSYNCFPIYMSKESQRLVGFALRDLTJAIESARKKOGIYSSR 660
Oy 705 VCFQHTPSPAPESPRLKRSILDSNPFVTOTHPMEIVDFIRKLGLRQCLVTHNGRL 764
Db 661 MYFTEEPPELPANSPHPLKLRIFENLSPFTVTDHPMETVDFIRKLGLRQCLVTHNGRL 720
Oy 765 LGITTKDILRHMAQTANODPASIMFN 791
Db 721 LGITTKDILRHMAQTANODPASIMFN 747

RESULT 5
US-09-991-936-1915
; Sequence 1915, Application US/09991936
; Publication No. US20030073827A1
; GENERAL INFORMATION:
; APPLICANT: Brandt, Kevin S.
; APPLICANT: Gaines, Patrick J.
; APPLICANT: Stinchcomb, Dan T.
; APPLICANT: Wisniewski, Nancy
; TITLE OF INVENTION: FLUOR HEAD, NERVE CORD, HINDGUT AND MALPIGHIAN TUBULE
; FILE REFERENCE: FC-6-C1
; CURRENT APPLICATION NUMBER: US/09/991,936
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: US/09/543,668
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: 60/128,704
; PRIOR FILING DATE: 1999-04-09
; NUMBER OF SEQ ID NOS: 1959

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1915
; LENGTH: 851
; TYPE: PR1
; ORGANISM: Ctenocephalides felis
;
US-09-991-936-1915

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Query Match	62.7%;	Score 2619;	DB 9;	Length 851;
Best Local Similarity	62.6%;	Pred. No. 6.9e-236;		
Matches 501;	Conservative 106;	Mismatches 169;	Indels 24;	Gaps 8

QY	10	PYDGDNDIPIRELIHKR-----GHHYH-TNGSGINSTHL-----LDLDEP	51
Db	58	PVSDSGDPS-DEFGKRIFFPGCSOTLIUDDNGSANLAIKEEGISSGCISFAGQASDD	116
QY	52	IPGVGYDDPHTIDMVREKCDRERRHRRINSKKRESAMEMTKSLYDAMSGMLVVTTLGA	111
Db	117	IPGIGQYDDPHTIMQRIADRRMRHRYIAKKRQDSILDLIKGANDAMSGVCLLVIG	176
QY	112	SGALAGLIDIAADWMTDLKEGICISALMYNHEOCCWGSNETTFEERDKCPOMKTWAEIIT	171
Db	177	TGAIAGVADIDASMTDLKNGCVCOQAEMLNEDOCWSINETTDPD-GNCSQMLTWPEVFG	235
QY	172	GOAEPGSGYINMYIMYIMWALSFPALVSLVKVAPYACSGGIPDEIKTILSGFTIRGYLG	231
Db	236	QPRGACAGYITAIIFYITIMALIFPSLASLAVRMAPAPACSGGIDPEIKTILSGFTIRGYLG	299
QY	232	KWTLMIKTITVLAVASGLSGKEGRLVHVACCCGNIFYLPPRYSTNEAKKREVLASAS	291
Db	296	KWTLIKISVGSJMLVSAGLSLGGKGPWMIHASCIGNITSLIFYLPPRYSGRNEAKKEITLSAA	355
QY	292	AAGSVANGAIGIVLSLEEVSYFFPKTLMTBSFPAALVAFPLRSINPGRNRLVLY	351
Db	356	AAGSVANGAIGIVLSLEEVSYFFPKTLMTBSFPAALVAFPLRSINPGRNHSVLYF	415
QY	352	VEYHTPWTLFELFELILGVGFMGAFFIRANIAMCRRRKSTKFKGYPLVEYITVAIT	411
Db	416	VEYKHPWTFELFELIGIIGVAVATFLIKANLYWCRRKFRKSLGQYPAEVLVAVAT	475
QY	412	AVIAFPNPTYPLANTSELIKELFTCCGPLESSLCDYRDNMAKSIYDDIPDRAGICVYS	471
Db	476	AVIAYPNPTYEMNTSOLLYLLEFSCGINSNDPLCDY--NRHFTDYVKSATIEIAAGPQVY	533
QY	472	AIMOULCALIKIIMVFTFGIKVPSGLFPRSMAGIAGIVGIAVEOLAYYHHDMFIF	531
Db	534	AVMLLILALYKLGKIVFTFGMKVPCGFLIFSLDGLAIMGIVGIGIEOLAUYI PKLMPF	591
QY	532	KEMCEVGADCTPGLYAMVGAACALGVTMTVYSLVYIVELTGLGEIYIPLMAAVMTSK	591
Db	594	SGCESTGDNCTPGLYAMVGAANVLGVTMTVYSLVYIMELTGCYRIYIPLMAAAMASK	655
QY	592	WVGAFGREGIYEAHIRLNGYIPLDAAKEEPHTHTLAAVDYMRPRRNDPPLAVLTDNNKTVD	651
Db	654	WVGALGROGIVDIAHIOINGYIPLDSDSDEFAHTSLADVMO PKRNE-TLSYITDOSTMTV	712
QY	652	DIEMNINTSVNGPVIKRSQSLUGYALRDLITIAIESARKKOEQIVSSRVCFOHT	711
Db	713	DVEGLIKETENGIPVYVRSQSULVGVFLVRDLNLIAANRRRIIDITIGOSLYLFT-NG	771
QY	712	PSLPAESRPLKSLRSLIDMSDPYTDHTPMEIYVDIRKLGRLQCLVTHNGRLGIIITKK	771
Db	772	PLVOSLGPPLKLLKIIDMAITVTDQTPMETVYDMFRKIGLRQTLVTHNGRLLGVIITKK	831
QY	772	DILRHMAOTANODPASIMFN 791	
Db	832	DYLRRHVKOMEDNEPNSILFN 851	

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RESULT 6
US-09-864-761-42913
; Sequence 42913, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:

```

```

APPLICANT: eenn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aecomica-X-1
CURRENT FILING DATE: 2001-05-23
PRIORITY APPLICATION NUMBER: US/09/864,761
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: US 60/180,312
PRIORITY FILING DATE: 2000-02-04
PRIORITY APPLICATION NUMBER: US 60/207,456
PRIORITY FILING DATE: 2000-05-26
PRIORITY APPLICATION NUMBER: US 09/632,366
PRIORITY FILING DATE: 2000-08-03
PRIORITY APPLICATION NUMBER: GB 24263.6
PRIORITY FILING DATE: 2000-10-04
PRIORITY APPLICATION NUMBER: US 60/236,359
PRIORITY FILING DATE: 2000-09-27
PRIORITY APPLICATION NUMBER: PCT/US01/00666
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00667
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00664
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00669
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00665
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00668
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PRIORITY APPLICATION NUMBER: PCT/US01/00662
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00661
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00670
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: US 60/234,667
PRIORITY FILING DATE: 2000-09-21
PRIORITY APPLICATION NUMBER: US 09/608,408
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: US 09/774,203
PRIORITY FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vets. 1.1
SEQ ID NO 42913
LENGTH: 182
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC003666.1
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.73
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.2
OTHER INFORMATION: EST HUMAN HIT: AUJ33286.1, EVALUE 3.00e-76
OTHER INFORMATION: SWISSPROT HIT: P51793, EVALUE 4.00e-99
US-09-864-761-42913

Query Match      19.7%   Score 822; DB 10; Length 182;
Best Local Similarity 81.9%; Pred. No. 7.9e-69;
Matches 149; Conservative 16; Mismatches 17; Indels 0; Caps 0;

QY    313 VSYFPLKTLWRSEFAALVAFAVLRSINPGNSNLVLFYVYXHPWMLFELFPILLGVF 372
Db     1 VSIFYPLLTWRSEFAALVAFAVLRLSINPGNSRVLFLFYEHHPWMAELFPIILGVF 60

QY    373 GGLWGCAFTIRANIMCRRRKSTKFQYPVLEVIIIVAAITAVIAPPNPYTRLNSELIKEL 432
Db     61 GGWLGTFLFRGNIMCRRRKTRRLGKYDPLEVIIVTAITAIAPNPYTRNSTSELISL 120

QY    433 FTDCGLESSSLCYDRNDMANASKIVDDIPDRPAGIGVYSATIWOLCLALIFKIIMTFVETFG 492

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QY 313 VSFPEPLKTLWRSEFAALVAAVFLRSINPENSNSLYFVEYEHHPWMLPELFPETLLGVF 3172
Db 1 VSYFPEPLKTLWRSEFAALVAAVFLRSINPENSNSLYFVEYEHHPWMAELFPETLLGVF 60
QY 373 GGLGCAEFTIRANIMCRRRKSTKFGKGPVLEVIIVAAITVAIVAFNPDPYTRLNSSELIKEL 4323
Dd 61 GGLMGTEFLIRONIAMCRRRKTRRLGKKIPVLEVIIVTAITAIAPNPYTRQSTSELSSEL 120
QY 433 FTDDGPLESSSLCYDRDMNASKITVDIDIPDRPAGIGVYSATIMOLCALFKRIIMTFVTFG 4929

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Db 121 FNDGALSSQLCDYINDPMTRPVDDIPDRPAGVGYTAMQALALIFKIIVTIFTFG 180
 QY 493 IK 494
 Db 181 MK 182

RESULT 7
 US-09-864-761-47670
 ; Sequence 47670, Application US/09864761
 ; Patent No. US20020048763A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharon G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; APPLICANT: Chen, Wensheng
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 ; FILE REFERENCE: Aecm1ca-x-1
 ; CURRENT APPLICATION NUMBER: US/09/864,761
 ; CURRENT FILING DATE: 2001-05-23
 ; PRIOR APPLICATION NUMBER: US 60/180,312
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/632,366
 ; PRIOR FILING DATE: 2000-08-03
 ; PRIOR APPLICATION NUMBER: GB 24263.6
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: US 60/236,359
 ; PRIOR FILING DATE: 2000-09-27
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00662
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00661
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00670
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: US 60/234,687
 ; PRIOR FILING DATE: 2000-09-21
 ; PRIOR APPLICATION NUMBER: US 09/608,408
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: US 09/774,203
 ; PRIOR FILING DATE: 2001-01-29
 ; NUMBER OF SEQ ID NOS: 49117
 ; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
 ; SEQ ID NO 47670
 ; LENGTH: 166
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: MAP TO AJ239323.2
 ; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 8.9
 ; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 3.9
 ; OTHER INFORMATION: EST_HUMAN HIT: A0133286.1, EVALUATE 1.00e-60
 ; OTHER INFORMATION: SWISSPROT HIT: P51795, EVALUATE 5.00e-82
 ; US-09-864-761-47670
 Query Match 16.5%; Score 687.5; DB 10; Length 166;
 Best Local Similarity 74.3%; Pred. No. 2.6e-56;

Matches 124; Conservative 22; Mismatches 20; Indels 1; Gaps 1;
 QY 328 AALVAATFLRSINPFGNSRLVLFVEYHTPMYLFELPFTLLGVGGIMGAFIRANIAM 387
 Db 1 AALVAATFLRSINPFGNSRLVLFVEYHTPMYLFELPFTLLGVGGIMGAFIRANIAM 60
 QY 388 CRRKSTKFGKPYLEVLIYAATRAVIAFPNPTRLNTSELKEIFPDGPLESSSLCDY 447
 Db 61 CRRKSTKFGKPYLEVLIYAATRAVIAFPNPTRLNTSELKEIFPDGPLESSSLCDY 120
 QY 448 RNDMNASKIYDDIPDRPAGVSAIMQALALIFKIIVTIFTFGK 494
 Db 121 ENRENTSK-GGELPDRPAGVGSAMQALALITLIKIVTIFTFGK 166

RESULT 8
 US-09-864-761-34035
 ; Sequence 34035, Application US/09864761
 ; Patent No. US20020048763A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Penn, Sharon G.
 ; APPLICANT: Rank, David R.
 ; APPLICANT: Hanzel, David K.
 ; APPLICANT: Chen, Wensheng
 ; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO
 ; FILE REFERENCE: Aecm1ca-x-1
 ; CURRENT APPLICATION NUMBER: US/09/864,761
 ; CURRENT FILING DATE: 2001-05-23
 ; PRIOR APPLICATION NUMBER: US 60/180,312
 ; PRIOR FILING DATE: 2000-02-04
 ; PRIOR APPLICATION NUMBER: US 60/207,456
 ; PRIOR FILING DATE: 2000-05-26
 ; PRIOR APPLICATION NUMBER: US 09/632,366
 ; PRIOR FILING DATE: 2000-08-03
 ; PRIOR APPLICATION NUMBER: GB 24263.6
 ; PRIOR FILING DATE: 2000-10-04
 ; PRIOR APPLICATION NUMBER: PCT/US01/00667
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00669
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00664
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00666
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00665
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00668
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00663
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00662
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: PCT/US01/00661
 ; PRIOR FILING DATE: 2001-01-30
 ; PRIOR APPLICATION NUMBER: US 60/234,687
 ; PRIOR FILING DATE: 2000-09-21
 ; PRIOR APPLICATION NUMBER: US 09/608,408
 ; PRIOR FILING DATE: 2000-06-30
 ; PRIOR APPLICATION NUMBER: US 09/774,203
 ; PRIOR FILING DATE: 2001-01-29
 ; NUMBER OF SEQ ID NOS: 49117
 ; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
 ; SEQ ID NO 34035
 ; LENGTH: 161
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; OTHER INFORMATION: MAP TO AC003666.1

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PRIORITY FILING DATE: 2000-08-03
PRIORITY APPLICATION NUMBER: GB 24263.6
PRIORITY FILING DATE: 2000-10-04
PRIORITY APPLICATION NUMBER: US 60/236,359
PRIORITY FILING DATE: 2000-09-27
PRIORITY APPLICATION NUMBER: PCT/US01/00666
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00667
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00664
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00669
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00665
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00668
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00663
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PRIORITY APPLICATION NUMBER: PCT/US01/00661
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00670
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: US 60/234,687
PRIORITY FILING DATE: 2000-09-21
PRIORITY APPLICATION NUMBER: US 09/608,408
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: US 09/774,203
PRIORITY FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonmax Sequence Listing Engine vers. 1.1
SEQ ID NO 34036
LENGTH: 75
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC003666.1
OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 0.93
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.9
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.5
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.4
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.97
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.5
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.63
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 0.81
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.77
OTHER INFORMATION: EST HUMAN HTT: H38319.1, EVALU6 6.00e-36
OTHER INFORMATION: SWISSPROT HIT: P51794, EVALU6 1.00e-36
US-09-864-761-34036
Query Match 6.4%; Score 267; DB 10; Length 75;
Best Local Similarity 69.9%; Pred. No. 1.7e-17;
Matches 51; Conservative 10; Mismatches 12; Indels 0; Gaps 0;
QY 689 TESARKQEGIVGSSRVFAQHTPSLAESEPRPLKSLDMSPTVTDHPTMELVDF 748
DNR 3 LENAARQEGIVGSSRVFAQHTPSLAESEPRPLKSLDMSPTVTDHPTMELVDF 62
Db 749 RKLGRQCVLTVHN 761
Db 63 RKLGRQCVLTVHN 75
RESULT 11
US-09-864-761-37070
Sequence 37070, Application US/09864761
Patient No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.

```

```
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aeonica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIORITY APPLICATION NUMBER: US 60/180,312
PRIORITY FILING DATE: 2000-02-04
PRIORITY APPLICATION NUMBER: US 60/207,456
PRIORITY FILING DATE: 2000-05-26
PRIORITY APPLICATION NUMBER: US 09/632,366
PRIORITY FILING DATE: 2000-08-03
PRIORITY APPLICATION NUMBER: GB 24263.6
PRIORITY FILING DATE: 2000-10-04
PRIORITY APPLICATION NUMBER: US 60/236,359
PRIORITY FILING DATE: 2000-09-27
PRIORITY APPLICATION NUMBER: PCT/US01/00666
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00667
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00664
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00669
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00665
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00668
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00663
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00662
PRIORITY FILING DATE: 2001-01-30
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PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: PCT/US01/00670
PRIORITY FILING DATE: 2001-01-30
PRIORITY APPLICATION NUMBER: US 60/234,687
PRIORITY FILING DATE: 2000-09-21
PRIORITY APPLICATION NUMBER: US 09/608,408
PRIORITY FILING DATE: 2000-06-30
PRIORITY APPLICATION NUMBER: US 09/774,203
PRIORITY FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
SEQ ID NO 3070
LENGTH: 50
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC003666.1
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.65
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.74
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.69
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.83
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.86
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 0.86
OTHER INFORMATION: SWISSPROT HIT: p51793, EVALUATE 2.00e-27
OTHER INFORMATION: EST_HUMAN HIT: A1650246.1, EVALUATE 1.00e-26
US-09-864-761-37070

Query Match
Best Local Similarity 74.0%; Score 240; DB 10; Length 50;
Matches 37; Conservative 8; Mismatches 5; Indels 0; Gaps 0;
```

```
GENERAL INFORMATION:
APPLICANT: NAKAGAWA, SATOSHI
APPLICANT: MIZOGUCHI, HIROSHI
APPLICANT: ANDO, SEIKO
APPLICANT: HAYASHI, MIKIRO
APPLICANT: OCHIAI, KEIKO
APPLICANT: YOKOI, HARUHIKO
APPLICANT: TATEISHI, MOKO
APPLICANT: SENOH, AKIHIRO
APPLICANT: IKEDA, MASATO
APPLICANT: OZAKI, AKIO
TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
FILE REFERENCE: 249-125
CURRENT APPLICATION NUMBER: US/09/738,626
CURRENT FILING DATE: 2000-12-18
PRIORITY APPLICATION NUMBER: JP 99/377484
PRIORITY FILING DATE: 1999-12-16
PRIORITY APPLICATION NUMBER: JP 00/159162
PRIORITY FILING DATE: 2000-04-07
PRIORITY APPLICATION NUMBER: JP 00/280988
PRIORITY FILING DATE: 2000-08-03
NUMBER OF SEQ ID NOS: 7059
SOFTWARE: PatentIn ver. 3.0
SEQ ID NO 3570
LENGTH: 423
TYPE: PRT
ORGANISM: Corynebacterium glutamicum
US-09-738-626-3570

Query Match
Best Local Similarity 4.0%; Score 169; DB 9; Length 423;
Matches 89; Conservative 62; Mismatches 145; Indels 132; Gaps 15;
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QY 190 WALSFAFLA---VSLKVFAPYAGSGIPKIKTILSGFIIRGYLGKWTMIKTITLVLA 245
DB 71 WAFEFVHRTGPKREVSIVGAIR---GKMPILLETIASAFL-----QVTT 110
QY 246 VASGLSLKREGPLVHVACCGGNIFSYLFPKYSTNEAKKREVLASAAGSVARGAPIGG 305
DB 111 VAAGAPVGAENAPRIAGALVGERPSRWL---QDIDAKRILVSAAGAGASFHPLAG 167
QY 306 VLESLE---EVSYPFLKTLMRSEFALVAEVLRSINFGNSRLVLFVEYHTPWYLF 361
DB 168 VLEALEVLVLEASTRTVVAIITTTAAVATTGFFVOTPDVFSTYPL-----ESPMLL 221
QY 362 ELFPFILLGVFGILGAFETRA-----NIACRRRRSTKRGKYPVLEVIIVAA 409
DB 222 AA---WVTGVVAGCGHMFSAAHKMAQASPKGVKILM-----QMPDGFVIVAAV 268
QY 410 ITVIAFPNPTYRNTSELKELFTDCGPLESSLCDYRDMNASKIVDDIPRPAIGV 469
DB 269 I-----VEFETLANPRLADSMIGD-GLILSTLL----- 297
QY 470 YSAIWOLCLALFKIINTVTFGIKVPSGLFPSMAIGAIGRIYGIAYEOLAYHHDF 529
DB 298 -----LVIVLRANFELAFRGNVGNULDIPAFAGSVAGVAVLEPITN----- 343
QY 530 IREKWEVAGDCITPGIYANVGAACIGVTRMTVSIVLVITFELTGLLEY-----IVP 582
DB 344 -----VPVIAFALLGAAPL-----STWMAELFGLIAVAEFTDMEAGCYLP 385
QY 583 LMAAVMTS 590
DB 386 IFLAVASA 393
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RESULT 12
US-09-738-626-3570
Sequence 3570, Application US/09786626
Publication No. US20020197605A1

RESULT 13
US-10-014-502-2
Sequence 2, Application US/10014502
Patent No. US20020137184A1
GENERAL INFORMATION:
APPLICANT: YE, Jane et al.
TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,

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      PRIOR APPLICATION NUMBER: 60/165,086
      PRIOR FILING DATE: 1999-11-12
      NUMBER OF SEQ ID NOS: 292
      SOFTWARE: FASTSEQ for Windows Version 4.0
      SEQ ID NO 287
      LENGTH: 1094
      TYPE: PRT
      ORGANISM: Mycobacterium tuberculosis
      US-09-712-363-287

Query Match      2.7%; Score 112.5; DB 9; Length 1094;
Best Local Similarity 20.1%; Pred. No. 0.24;
Matches 93; Conservative 56; Mismatches 150; Indels 163; Gaps 20;

QY 198 AVSLVKKVAPAPACSGSGPGEIKTILSGFIIRYGLGKWTLMIKT-----TTVLVA 245
Db 205 AVMLIGVAVLVAWVGALADRLSRGRLRMLTRPRRVKGFASRLADAQVATITLLW 264
QY 246 VASGLSLCKEGPLV---HVACCCGNIFSLPEPKYSTNEA-----KKREVLASAASAGVS 296
Db 265 HVIGATSSDDGYLLTVARVAPKAGVANY-YRYGQTBPADWYTSVLAQLAAVSTAGVW 323
QY 297 VAFGAPIGGVLFSLSEVSYTFPLKLTMSFTALVAALVLSINP-----FGNSRLVLFY- 351
Db 324 MRLPATLAGI-----ACW-----LVISRFVLRLLGPGGLASNRYAVETA 364
QY 352 -VEYHTPWYLF-----ELPEPFIILGFGGLMGAFIFRANIAMCRKRSYKFGKY-PVLEVI 405
Db 365 GAVFLSANLPNNNGRLRPEPLIALGLV-----VTWVIVERSIALGLRPAVAIAI 412
QY 406 IVAAITVAVIAFPNPTRLNTSELKELEFTDCGLESSLCDYRDMNASKIVDDIPDRPA 465
Db 413 IVAVLATLALA---PQGLTALAPLL-----TGARALAQRIRRRRA 448
QY 466 GIGVYSATWQCLLPFIKTIIMTFPF-----GIRVPSG-----L 499
Db 449 TDGLLAPLAVLAAL---SLITVVYFRDQTLATVAESARIKYKVGPTIATWQDFLRIFYL 505
QY 500 FIPSAIGAIA-----GRIQVAVEQLAYYHHDFIFERKCEV 537
Db 506 TVESNVEGSMRRRAVLVILFCLFGVLFVLLRRGRVAGLAGS-----PAWRLI 553
QY 538 GADCI-----TPGIYAM-----VGAACAGGYTRMIVSLV 567
Db 554 GTTAVGALLLTPTTKKVAOPGAFAGLAGVIGAVTAFTFARI 595

RESULT 15
US-10-044-995-23
: Sequence 23, Application US/10044995
: Publication NO. US20030049685A1
: GENERAL INFORMATION:
: APPLICANT: DELEYS, ROBERT J
: POLLETT, DIRK
: MAERTENS, GEERT
: VAN HEUVERSMUN, HUGO
: TITLE OF INVENTION: SYNTHETIC ANTIGENS FOR THE DETECTION OF
: ANTIBODIES TO HEPATITIS C VIRUS
: NUMBER OF SEQUENCES: 23
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: NIXON & VANDERHAYE P.C.
: STREET: 1100 NORTH GLEBE ROAD
: CITY: ARLINGTON
: STATE: VA
: COUNTRY: USA
: ZIP: 22201
: COMPUTER READABLE FORM:
: MEDIUM TYPE: floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/10/0044,995

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FILING DATE: 15-Jan-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/391,671
FILING DATE: <Unknown>
APPLICATION NUMBER: US 07/920,286
FILING DATE: 14-OCT-1992
APPLICATION NUMBER: WO PCT/EP91/02409
FILING DATE: 13-DEC-1991
APPLICATION NUMBER: EP 90124241.2
FILING DATE: 14-DEC-1990
ATTORNEY/AGENT INFORMATION:
NAME: SADOFF, B.J.
REGISTRATION NUMBER: 36,663
REFERENCE/DOCKET NUMBER: 1487-5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 7038164000
TELEFAX: 7038164100
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 2894 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-10-044-995-23

Query Match
Best Local Similarity 2.7%; Score 112; DB 9; Length 2894;
Matches 80; Conservative 54; Mismatches 140; Indels 110; Gaps 21;

QY 65 DWR-EKC--KDRERHRIRNSKKESAWEMTKSLYDAWGMVLVYTLGLASGAL---AGL 118
Db 645 NWTRGERCDLEDKDRSELSPDLLTTQWVLPSCF-----TTLPALSTGLIHLHONT 696
QY 119 IDI-----AADWMTDLKEGICLSALWYNHQCCMGSNETTFEERDCPOQKWTAE 169
Db 697 VDOVYLXGVSSIASNAIKWEYVLLFLLADARVC-----SC---IMMML 739
QY 170 IIGQABEGPSYIMNYITWALSPAF LAVSLVK--VEAPYACGSGIPEIKTILSGFIIR 227
Db 740 LISQAE---AALENLVILNAASLAGTHGLVSLVFVFCFAMYLKGMVP-----GAVYT 789
QY 228 GYLGKWTMLKTTIVLAVAS--GLSLCKEGPLVHVACCCGNIFSYLEPKYSTNKAKKREV 286
Db 790 FY-GMWPLL---LLALPQRAYALDTE---VAASCGV-----V 822
QY 287 ISASASAGVSAFAPIGVLFSLSEVSYFPLKTLRSPFAALVAFAVLRSINP----- 342
Db 823 LVGLMALTLSPYKRYISWCLM-----WLOYFLTRVEAQLHWIPLPLNVRG 868
QY 343 GNSRLVLYEYHTPWYLFELFPILLGVFGLM-----GAFFIRAN--IAMCRRRK 392
Db 869 GRDAVILLMCVH-PLTVFDITK-LILAVFGPIILIDASLTKVYFVRVQGLRFCALAR 926
QY 393 STFGKPYPLEVLIIVAITAVIAF 416
Db 927 KMGHYVQVILKGLTGTYYV 950

Search completed: May 12, 2003, 15:11:34
Job time : 32 secs

